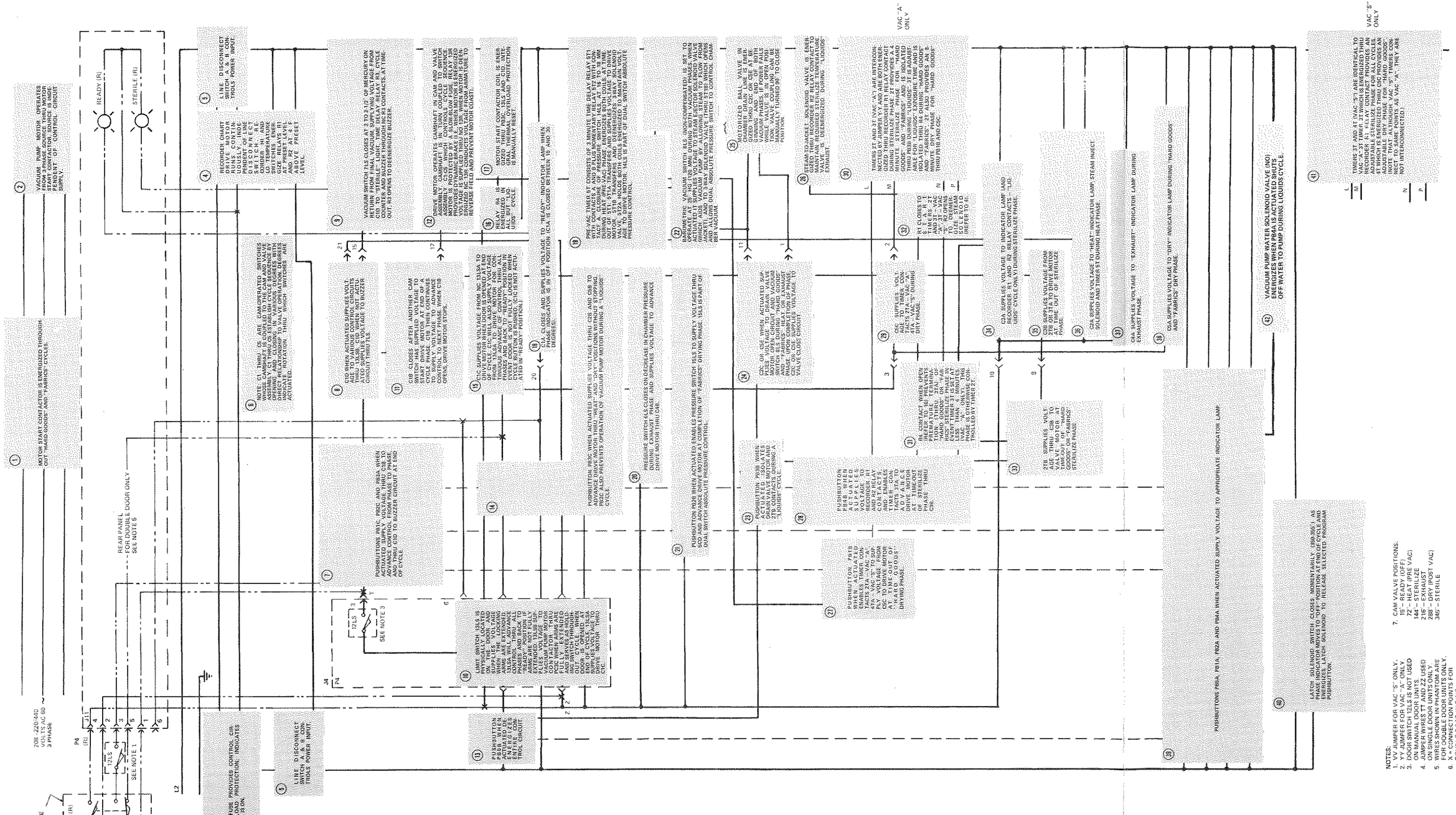
208 -220/440 VOLTS AC 60 ~ 3 PHASE
120 VOLTS AC 60 ~ SINGLE PHASE
FOR DOUBLE DOOR ONLY
INDICATOR FUSE PROVIDES CONTROL CIR CUIT PROTECTION. INDICATES WHEN POWER IS ON.
LINE DISCONNECT SWITCH IN ON POSITION CONTROLS POWER INPUT.
MOTOR START CONTACTOR IS ENERGIZED THROUGH PRESSURE AND TEMPERATURE SWITCHES AND FABRICS CYCLE.
VACUUM PUMP MOTOR OPERATES FROM 3-PHASE SOURCE THRU MOTOR STARTER CONTACTOR. MOTOR RUNS CONTINUOUSLY WHEN POWER IS ON AND PENDENT ON TIME OF CONTROL CIRCUIT SUPPLY.
READY (R)
STERILE (R)
RECORDER CHART DRIVE MOTOR RUNS CONTINUOUSLY WHEN POWER IS ON AND PENDENT ON TIME OF CONTROL CIRCUIT SUPPLY. RECORDER CHART SPEED IS 1 INCH PER HOUR.
REAR PANEL - FOR DOUBLE DOOR ONLY SEE NOTE 6
NOTE: C1 THRU C8 ARE CAM-OPERATED SWITCHES CONTROLLED BY CAM TIMER ASSEMBLY CAMSHAFT. THE CAM ASSEMBLY CAMSHAFT IS TURN COUPLED TO SWITCH ASSEMBLY CAMSHAFT BY A SLOW-BLOW FUSE. RELAY 1SR IS PROTECTED BY A SLOW-BLOW FUSE. RELAY 1SR DIRECT RELATIONSHIP TO VALVE OPERATION. DEGREES ARE MEASURED CLOCKWISE FROM 0 DEGREES. ALL SWITCHES ARE SHOWN IN PHANTOM WITH CAM IN POSITION AS ACTUATED.
VACUUM SWITCH 7LS CLOSES AT 2 TO 2-1/2" OF MERCURY ON RETURN FROM FINAL VACUUM, SUPPLYING VOLTAGE FROM C1B THRU C8B, C1D WHEN NOT ACTUATED THROUGH NC 1LS CONTACTS. AT TIME COUNTER AND BUZZER THROUGH NC R3 CONTACTS. AT TIME OUT, R3 OPENS TO DEENERGIZE BUZZER.
DRIVE MOTOR OPERATES CAMSHAFT IN CAM AND VALVE ASSEMBLY. CAMSHAFT IS TURN COUPLED TO SWITCH ASSEMBLY CAMSHAFT BY A SLOW-BLOW FUSE. RELAY 1SR MOTOR IS PROTECTED BY A SLOW-BLOW FUSE. RELAY 1SR DIRECT RELATIONSHIP TO VALVE OPERATION. DEGREES ARE MEASURED CLOCKWISE FROM 0 DEGREES. ALL SWITCHES ARE SHOWN IN PHANTOM WITH CAM IN POSITION AS ACTUATED. VOLTAGE IS SUPPLIED THRU NO 1PD, WHEN MOTOR IS DEENERGIZED, DYNAMIC BRAKING IS ACCOMPLISHED BY REVERSE FIELD AND PREVENT MOTOR COAST ARMATURE TO
RELAY 1R IS ENERGIZED ALL BUT "LIQUIDS" CYCLE
MOTOR START CONTACTOR COIL IS ENERGIZED THROUGH PRESSURE AND TEMPERATURE SWITCHES AND THERMAL OVERLOAD PROTECTION IS MANUALLY RESET.
CID WHEN ACTUATED SUPPLIES VOLTAGE TO C1D THRU 13LS, C1D WHEN NOT ACTUATED SUPPLIES VOLTAGE TO BUZZER CIRCUIT THRU R3.
C1B CLOSES AFTER ANOTHER CAM HAS CLOSED TO ENERGIZE TO START DRIVE MOTOR AT END OF A CYCLE. C1B ALSO SUPPLY VOLTAGE TO SUPPLY VOLTAGE TO ADVANCE CONTROL TO NEXT PHASE WHEN C1B OPENS, DRIVE MOTOR STOPS.
C1C SUPPLIES VOLTAGE FROM NC 1SLS TO ENERGIZE DRIVE MOTOR AT START OF CYCLE. C1C HILL ALSO SUPPLY VOLTAGE THROUGH NO 1SLS TO ADVANCE CONTROL THRU ALL PHASES AND BACK TO "READY" POSITION IN "LIQUIDS" CYCLE BUTTON IS PUSHED. C1C IS NOT ACTUATED IN "LIQUIDS" POSITION.
C1A CLOSES AND SUPPLIES VOLTAGE TO "READY" INDICATOR LAMP WHEN CAM IS IN "READY" POSITION (NO 18 THRU 355 DEGREES).
PUSHBUTTONS PB1C, PB2C AND PB2A WHEN ACTUATED SUPPLY VOLTAGE THRU C1B TO ADVANCE CONTROL TO NEXT PHASE. PB1C ALSO PB2C ALSO PREVENTS OPERATION OF VACUUM PUMP MOTOR DURING A "LIQUIDS" CYCLE.
PRESSURE SWITCH 4LS CLOSES ON RISE IN CHAMBER PRESSURE DURING EXHAUST PHASE AND SUPPLIES VOLTAGE TO ADVANCE DRIVE MOTOR THRU C1B.
PUSHBUTTON PB2B WHEN ACTUATED ENABLES PRESSURE SWITCH 6LS TO SUPPLY VOLTAGE THRU DUAL SWITCH ABSOLUTE PRESSURE CONTROL. 6LS CLOSES ON RISE IN CHAMBER PRESSURE DURING EXHAUST PHASE. 6LS IS PART OF DUAL SWITCH ABSOLUTE PRESSURE CONTROL.
PUSHBUTTON PB1B WHEN ACTUATED ISOLATES PRESSURE SWITCH 6LS FROM SUPPLY VOLTAGE THRU 2TB CONTACTS DURING A "LIQUIDS" CYCLE.
PUSHBUTTON PB1B WHEN ACTUATED SUPPLIES VOLTAGE THRU 2TB CONTACTS TO ADVANCE CONTROL AT TIME OUT OF "HARD GOODS" DRYING PHASE.
PUSHBUTTON PB1B WHEN ACTUATED ISOLATES VACUUM PUMP MOTOR STARTER CONTACTOR COIL FROM SUPPLY VOLTAGE THRU PCSC WHEN ARMS ARE FULLY EXTENDED. 13LSB SUPPLIES VOLTAGE THRU PCSC TO ENERGIZE VACUUM PUMP MOTOR STARTER CONTACTOR COIL. 13LSB WILL ADVANCE CONTROL THRU ALL PHASES AND BACK TO "READY" POSITION IF PUSHBUTTON IS ACTUATED WHEN ARMS ARE EXTENDED. 13LSB SUPPLIES VOLTAGE TO ENERGIZE VACUUM PUMP MOTOR STARTER CONTACTOR COIL. MOTOR THRU PCSC WHEN ARMS ARE FULLY EXTENDED. 13LSB SUPPLIES VOLTAGE TO ENERGIZE VACUUM PUMP MOTOR STARTER CONTACTOR COIL. MOTOR THRU INT SWITCH THROUGH CLOSED DOOR. WHEN DOOR IS OPENED, AT TIME OF CYCLE, 13LSB SUPPLIES VOLTAGE TO ENERGIZE MOTOR THRU C1C.
PUSHBUTTON PB1B WHEN ACTUATED ENABLES PRESSURE SWITCH 6LS TO SUPPLY VOLTAGE THRU 2TB CONTACTS 3TA TO ADVANCE CONTROL AT TIME OUT OF "HARD GOODS" DRYING PHASE.
LIMIT SWITCH 13LS IS ACTUATED WHEN DOOR IS OPEN. WHEN THE LOCKING PISTONS ARE EXTENDED 13LSA WILL ADVANCE CONTROL THRU ALL PHASES AND BACK TO "READY" POSITION IF DOOR IS OPENED DURING ANY PHASE OF ENTIRE CYCLE. 13LSB WILL SUPPLIES VOLTAGE TO CYC. MOTOR THRU
12LS SEE NOTE 3
J4 P4
P4 (R)
SEE NOTE 1
PUSHBUTTONS PB1C, PB2C AND PB2A WHEN ACTUATED SUPPLY VOLTAGE TO APPROPRIATE INDICATOR LAMP.
LATCH SOLENOID SWITCH CLOSES MOMENTARILY (850-3651 AS REQUIRED) AT BEGINNING OF "LIQUIDS" CYCLE AND ENERGIZES LATCH SOLENOID TO RELEASE SELECTED PUSHBUTTON.
PUSHBUTTONS PB2A, PB1A, PB2A AND PB4A WHEN ACTUATED SUPPLY VOLTAGE TO APPROPRIATE INDICATOR LAMP.
VACUUM PUMP WATER SOLENOID VALVE (NO) ENERGIZES WHEN PB4A IS ACTUATED SHUTS OFF WATER TO PUMP DURING LIQUIDS CYCLE.
C2A SUPPLIES VOLTAGE TO INDICATOR LAMP (AND RECORDER #1 AND #2 RELAY CONTACTS - "LID. UIDS" CYCLE ONLY) DURING STERILIZE PHASE.
C2B SUPPLIES VOLTAGE FROM 2TB CONTACTS TO 2TA AT TIME OUT OF STERILIZE PHASE.
C2A SUPPLIES VOLTAGE TO "HEAT" INDICATOR LAMP, STEAM INJECT SOLENOID AND TIMER 1 DURING 1ST PHASE.
C2A SUPPLIES VOLTAGE TO "EXHAUST" INDICATOR LAMP DURING EXHAUST PHASE.
C2A SUPPLIES VOLTAGE TO "DRY" INDICATOR LAMP DURING "HARD GOODS" AND "FABRICS" DRY PHASE.
TIMERS 3T AND 4T (VAC "A") ARE INTERCONNECTED THROUGH RECORDER, F1 RELAY CONTACT PROVIDES AN ADDITIONAL TIMED PERIOD FOR TIMERS 3T AND 4T WHICH IS ENERGIZED THRU C6C PROVIDED AN ADDITIONAL TIMED PERIOD FOR "HARD GOODS" (NOTE THAT 1ST PHASE FOR "HARD GOODS" IS NOT INTERCONNECTED AS VAC "A"). THEY ARE
VAC "A" ONLY
VAC "S" ONLY
NOTES:
1. VV JUMPER FOR VAC "S" ONLY.
2. YY JUMPER FOR VAC "A" ONLY.
3. DOOR SWITCH 12LS IS NOT USED ON MANUAL DOOR UNITS
4. JUMPER WIRES TT AND ZZ USED FOR DOUBLE DOOR UNITS ONLY.
5. WIRES SHOWN IN PHANTOM ARE FOR DOUBLE DOOR UNITS ONLY.
6. X1 CONNECTION POINTS FOR DOUBLE DOOR WIRING.
7. CAM VALVE POSITIONS:
0 - SEE CONTROL CHART
72 - HEAT (PRV VAC)
144 - STERILIZE
216 - EXHAUST
288 - HEAT (PRV VAC)
360 - STERILE

Service Bulletin Number						

Figure 4-2. BLOCKED ELECTRICAL SCHEMATIC TEXT, Sterilizer.

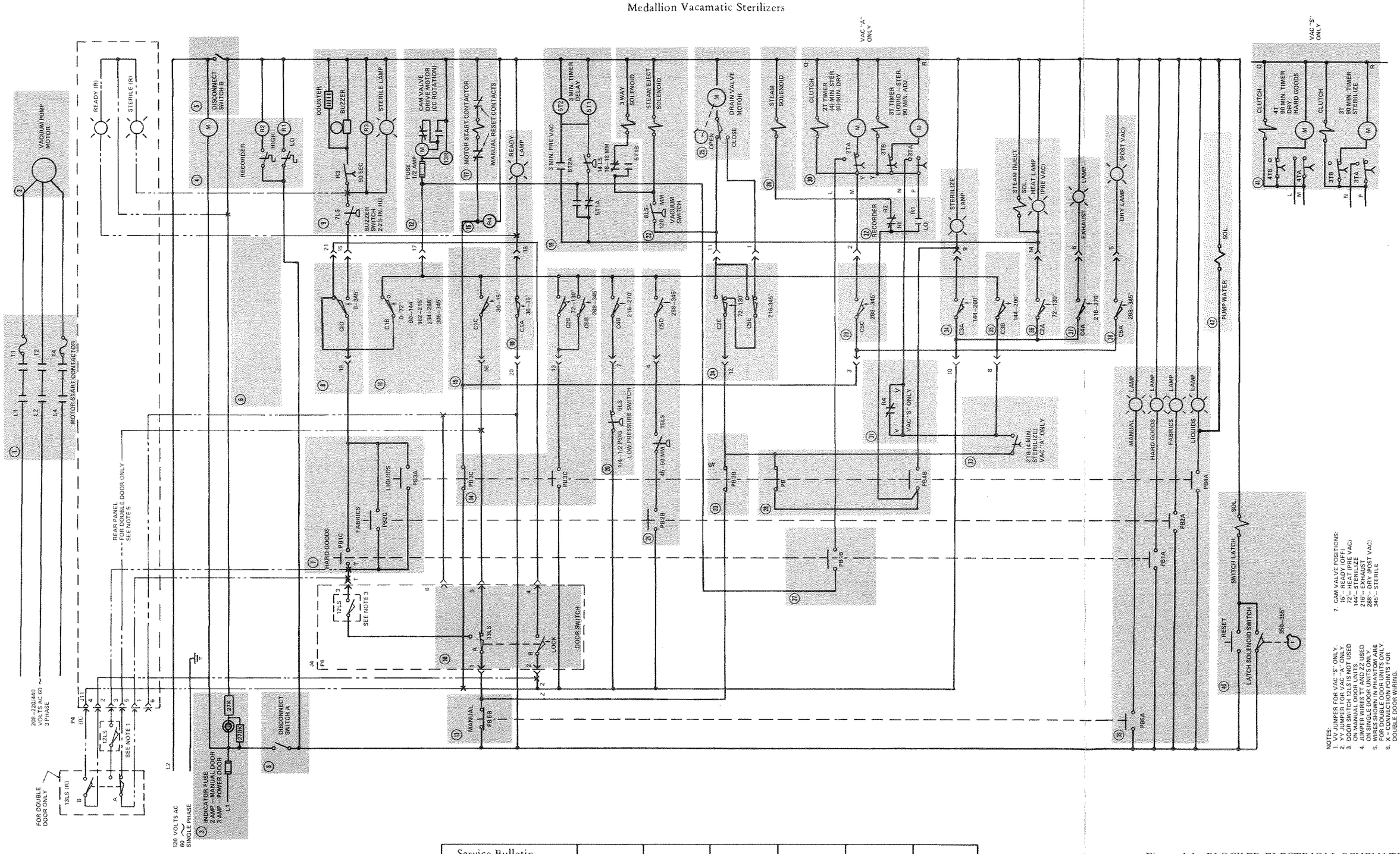

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Figure 4-1. BLOCKED ELECTRICAL SCHEMATIC, Sterilizer.